



# Transportation Packaging Quick Facts

Office of Environmental Management  
National Transportation Program



**Cask: IF-300**

**Manufacturer:** General Electric Company (GE)

**Certification:** U.S. Nuclear Regulatory Commission (NRC) Certification USA/9001/B() F, Revision 33 (expires September 30, 2005)

**General Description:** The General Electric IF-300 is a stainless steel-encased, 70-ton rail cask. It is shielded by depleted uranium, stainless steel, and a water-ethylene glycol mixture.

**Packaging Type:** B

**Gross Weight:** 140,000 pounds (63,637 kilograms) loaded maximum

**Capacity:** 21,000 pounds (9,546 kilograms) maximum

**Weight of Skid and Enclosure:** 45,000 pounds (20,455 kilograms)

**Overall Dimensions:** Length 210 inches (533.4 centimeters); Diameter 64 inches (162.6 centimeters)

**Cavity Size:** Length 180.2 inches (457.8 centimeters), Diameter 37.5 inches (95.2 centimeters)

**Mode of Transport:** Rail (principal mode), Truck, Water

**Use:** The cask is certified for shipment of irradiated uranium-oxide fuel assemblies and has three types of fuel baskets which can be interchanged to accommodate various fuels. The pressurized water reactor basket holds 7 assemblies, the unchanneled boiling water reactor (BWR) basket holds 18 assemblies, and the channeled BWR basket holds 17 assemblies.

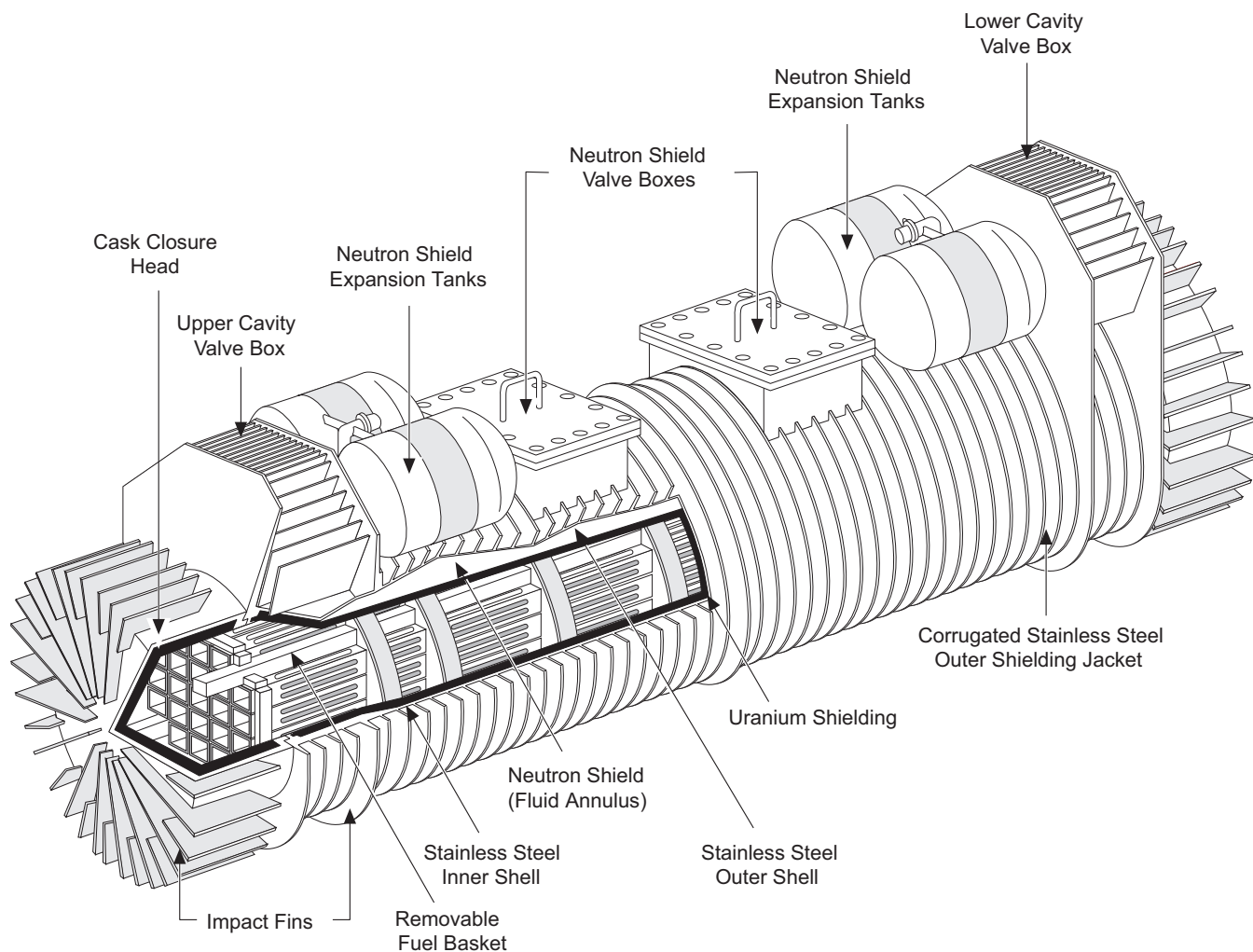
**Frequency of Use:** Twice a month

**Loading Process:** Authorized for vertical loading in wet environment (shipped dry)

**Owner:** Carolina Power and Light  
Raleigh, NC

Chem-Nuclear Systems  
Columbia, SC





## IF-300 Shipping Cask

Additional information on DOE's National Transportation Program may be obtained from:

National Transportation Program  
U.S. Department of Energy  
Albuquerque Operations Office  
P.O. Box 5400, MS SC-5  
Albuquerque, NM 87185-5400

Phone : 505-845-6134  
Fax: 505-845-5508

Website:  
<http://www.ntp.doe.gov/>

DOE Center for Environmental  
Management Information  
P.O. Box 23769  
Washington, DC 20026-3769

1-800-7EM-DATA  
1-800-736-3282

Website:  
<http://www.em.doe.gov/>

Transportation Resource Exchange Center  
ATR Institute  
University of New Mexico  
1001 University Blvd., SE  
Albuquerque, NM 87106-4342

Phone : 1-877-287-TREX (8739)  
Fax: 505-246-6001  
email: [trex@unm.edu](mailto:trex@unm.edu)

Website:  
<http://www.trex-center.org/>